

**ICC 815 Sizing Water Distribution, Drainage and
Venting Standard Consensus Committee (IS-SWDDV)**

Meeting 25 - Minutes

March 17, 2025

Chair: Gary Klein

Vice Chair: Philip Parisi

Secretariat- Ramiro Mata

Meeting 25 of the ICC 815 Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV) was held virtually on March 17, 2025. The meeting was conducted in accordance with ICC's Consensus Procedures. https://www.iccsafe.org/wp-content/uploads/ICC-Consensus-Procedures-ANSI-approved-8_2_21-BOD-apprvd-8_27_21.pdf

1. Welcome – Chairman, Gary Klein, convened the meeting and welcomed attendees at 2:04pm EST (11:04am PST) along with Staff Secretariat, Ramiro Mata. Mata reminded attendees about the ICC Code of Ethics and the Anti-Trust Policy, both of which can be found on the ICC 815 (IS-SWDDV) webpage.
2. Roll Call – Klein called the meeting to order with a roll call of ICC 815 (IS-SWDDV) committee members – Symbol ☒ indicates present, ☐ indicates absent.

Committee Members

Regulator		User		Manufacturer		Builder	
<input type="checkbox"/>	Jim Richardson	<input checked="" type="checkbox"/>	Esber Andiroglu PhD, PE	<input type="checkbox"/>	Marcus Elmer	<input checked="" type="checkbox"/>	Dan Buuck
<input type="checkbox"/>	Richard Grace	<input checked="" type="checkbox"/>	Gary Klein	<input checked="" type="checkbox"/>	Dave Parney		
<input checked="" type="checkbox"/>	Terry Haughn	<input type="checkbox"/>	John Lansing	<input checked="" type="checkbox"/>	Lance MacNevin PE	Consumer	
<input checked="" type="checkbox"/>	Ross Wakefield	<input checked="" type="checkbox"/>	Philip Parisi Jr. PE	<input type="checkbox"/>	Kyle Thompson PE	<input type="checkbox"/>	Tim Keane
		<input type="checkbox"/>	Tom Wise			SDO/Test Lab	
						<input checked="" type="checkbox"/>	Kathryn (Katie) Foster

ICC Staff – Tom Roberts

Interested Parties and Guests –Bob Carpenter, Rich Houle, Natascha Milesi-Ferretti, David Nickelson, Adam Smith, Lavanya Muttayan, Steven Buchberger, Mike Cudahy, Drew Rich, Nhat Nguyen

3. Quorum and Membership Review - With eleven committee members in attendance, Mata announced the threshold for quorum was met.
4. Approval of meeting minutes from February 18, 2025 – Motion by MacNevin, seconded by Parney. Motion carried.
5. Approval of March 17, 2025 Meeting Agenda – Motion by Parney, seconded MacNevin. Motion carried.
6. Discussion Items
 - a. Project Scope

- i. The current project scope includes residential, mixed-use, and institutional occupancies. There was discussion about whether to keep these three occupancy types in the scope or modify it.
 - ii. Mixed-use buildings were discussed as potentially being treated as separate entities from the residential portions, with different calculation methods.
 - iii. The committee decided to keep the current scope wording for now but may provide more details or limitations within the document itself rather than changing the formal scope.
 - iv. Schools were discussed as a potential inclusion, but the committee decided to consider it for a subsequent version of the standard.
 - v. Hotels and transient occupancies are not currently included in the scope.
 - b. Gantt Chart
 - i. The committee reviewed the Gantt chart but did not make any revisions.
- 7. Research Update - Rich
 - i. Drew presented analysis of water usage data from the Water Research Foundation Project 4039.
 - ii. The data included information on fixture usage patterns, including start times, durations, and frequencies for various fixtures like showers, toilets, and faucets.
 - iii. Key findings included that shower usage patterns were similar across households with different numbers of occupants, but frequency increased with more occupants.
 - iv. Toilet usage showed an unexpected trend where households with more occupants had fewer flushes per person.
 - v. Average shower duration was about 8.5 minutes, with 80% of showers lasting between 8-14 minutes.
 - vi. The data will be used to drive simulations for demand estimation in the standard.
 - vii. There was discussion about how to incorporate regional differences in usage patterns into the standard.
- 8. Working Groups – Meeting Updates and Work Plans
 - a. Measurement – No update
 - b. DWV – No update
 - c. Water Service – No update. The water service working group is still in the process of reviewing the draft that Wise shared at the last working group meeting
 - d. IEP – Mata reported for MacNevin –
 - i. A meeting is scheduled with ICC's IT group to begin developing the database for the IEP.
 - ii. The committee discussed the need to start with a small set of items (around 10) to establish the database structure and get feedback before expanding.
 - iii. There was discussion about how to allow international contributors to add data about fixtures and practices from their regions.
 - iv. The committee plans to use a controlled access system where approved contributors can log in to add data.
- 9. Old Action Items

- a. Send out the initial ANSI scope document to committee members for markup, including the items put in chat by Wakefield, Schmidt and Lansing, to help decide how the scope should look – Mata - Completed
- b. Send out a general outline of the drainage standard draft to the DWV working group members for delegating items – Lansing – In Process
- c. Follow up with building owner regarding marked up riser and data reports for the SVEN facility – Parisi – In Process

10. New Action Items

- a. Restart analysis of Water Research Foundation Project 4039 dataset after Excel data loss issue - **Rich**
- b. Run statistical analysis to determine if shower usage patterns are statistically the same across different occupancy levels - **Rich**
- c. Prepare mock layout of database user interface showing types of information needed for the International Encyclopedia of Plumbing (IEP) project - **MacNevin**
- d. Contact ICC internal connections to find contributors from Middle East and other regions that have adopted ICC Code for the IEP database project - **Mata**
- e. Follow up with building owner rep regarding sharing of data at the SVEN building - **Parisi**

11. New Business

12. Old Business

13. Next Meeting – April 22, 2025, at 2pm-4:30pm Eastern. Virtual format.

14. Adjournment – Motion to adjourn by Lansing, seconded by Parisi. Motion carried. Meeting adjourned at 3:29pm EDT (12:29pm PDT)